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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/879,804	06/12/2001	Chiaki Imaeda	9319S-000223	3726
27572	7590	09/08/2004		EXAMINER
HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			CHUNG, DAVID Y	
			ART UNIT	PAPER NUMBER
			2871	

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	IMAEDA, CHIAKI	
09/879,804		
Examiner David Y. Chung	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 10 June 2004.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,2,4-6,8,9,11-16,18,19,30-32,41,44-50,56 and 59-76 is/are pending in the application.
- 4a) Of the above claim(s) 2,6,9,16,41,44-46,48,56 and 66-70 is/are withdrawn from consideration.
- 5) Claim(s) 15,18,19,59,62 and 71-74 is/are allowed.
- 6) Claim(s) 1,4,5,8,11-14,30,32,47,49,50,60,61,63-65,75 and 76 is/are rejected.
- 7) Claim(s) 31 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 27 July 2004.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of group 1 in the reply filed on June 10, 2004 is acknowledged. The traversal is on the ground(s) that no undue burden exists on the examiner. This is not found persuasive because the search required for group 1 is significantly different from that required for group 2.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. **Claims 1, 4, 5, 30, 32, 47, 49, 50, 60, 61, 63-65, 75 and 76 rejected under 35 U.S.C. 102(b) as being anticipated by Togasaki (JP 04-352131).**

As to claims 1, 5, 30, 47 and 75, Togasaki discloses a liquid crystal display device wherein one of the two substrates contains a recess for housing the driving IC.

Note in figure 1, the panel substrate 1a, the driving IC 3 mounted to substrate 1, and substrate 1b containing a recess portion 9 for housing the driving IC. Substrate 1b can be considered the holding member.

As to claim 4, the areas surrounding the mounting area of driving IC 3 are covered with the flat face of substrate 1b.

As to claim 32, the sealant 14a can be considered a protective material.

As to claims 49 and 50, the driving chip 3 is positioned protruding from substrate 1a. A groove shaped recess 9 is formed in substrate 1b to house the driving chip.

As to claim 60, figure 1 shows that liquid crystal 14b is provided between substrates 1a and 1b.

As to claim 61, Togasaki does not disclose control means. However, this feature was inherent to the display of Togasaki as the device would not function otherwise.

As to claim 63, substrate 1b functions as a holding member and substantially covers substrate 1a.

As to claim 64, the recess portion 9 shown in figure 1 appears to substantially match the dimensions of the driving IC.

As to claim 65, the recess portion 9 shown in figure 1 appears to surround the driving IC.

As to claim 76, substrate 1b contains a first face, second face, a recessed groove 9, with each of the features allowing for proper positioning of the driving IC.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 8 and 11-14 rejected under 35 U.S.C. 103(a) as being unpatentable over Togasaki (JP 04-352131).

As to claims 8, 11 and 13, Togasaki does not explicitly disclose multiple driving IC's. However, multiple driving circuits were necessary for driving large displays without overloading the driving circuitry. This in turn increased the lifespan of the display. It

would have been obvious to one of ordinary skill in the art at the time of invention to provide multiple driving circuits in order to improve the lifespan of the display.

As to claim 12, Togasaki does not show electronic parts having different shapes or dimensions. However, it was well known to provide various shapes and sizes for the electronic parts depending on the shape and dimensions of the external housing and circuit board structure. This allowed the display to be compact. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to provide electronic parts having multiple dimensions and shapes in order to form a compact display.

As to claim 14, Togasaki shows a recessed portion 9 which can be considered to have a groove shape.

Response to Arguments

Applicant's arguments with respect to claims 1, 4, 5, 8, 11-14, 30, 32, 47, 49, 50, 60, 61, 63-65, 75 and 76 have been considered but are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

Claims 15, 18, 19, 59, 62 and 71-74 allowed.

Claim 31 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

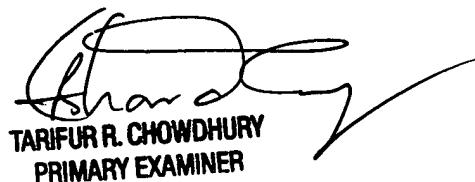
Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Chung whose telephone number is (571) 272-2288. The examiner can normally be reached on Monday-Friday from 8:30 am to 5:00 pm.

David Chung
GAU 2871
09/06/04



TARIFUR R. CHOWDHURY
PRIMARY EXAMINER